To: Shari.Ring@cadmusgroup.com[Shari.Ring@cadmusgroup.com]; Anna

Weber[Anna.Weber@cadmusgroup.com]; Adam Banasiak[adam.banasiak@cadmusgroup.com]

From: Dermer, Michele

Sent: Fri 6/24/2016 5:32:22 PM

Subject: FW: Tejon AE proposal- maps and cross-sectionsa

From: Kimber, Jeff@DOC [mailto:Jeff.Kimber@conservation.ca.gov]

Sent: Friday, June 24, 2016 10:30 AM

To: Dermer, Michele < Dermer. Michele @epa.gov>

Cc: Bartling, Bill@DOC <Bill.Bartling@conservation.ca.gov>; Chamberlain, Janel@DOC <Janel.Chamberlain@conservation.ca.gov>; Albright, David <Albright.David@epa.gov>

Subject: RE: Tejon AE proposal- maps and cross-sectionsa

Michele,

I am available all day on Tuesday. The water samples in our database show 2400 ppm TDS beyond the oil/water contact (OWC). The generally consensus is that the adjacent Transition zone water is less than 3000 ppm TDS. The criteria by which to exempt the area beyond the OWC was originally questioned by the DOGGR prior to submittal to the Water Boards. However, the DOGGR chose to incorporate the area outside the OWC based on 40 CFR 146.4 b(1), because the water adjacent to the oil/water contact is hydraulically connected to the water beneath the oil and to the pore spaces that are oil saturated. And therefore, any well that pumps water from that portion of the aquifer would eventually draw in oil. I look forward to talking more about this on the 28th.

Best Regards,

Jeff Kimber

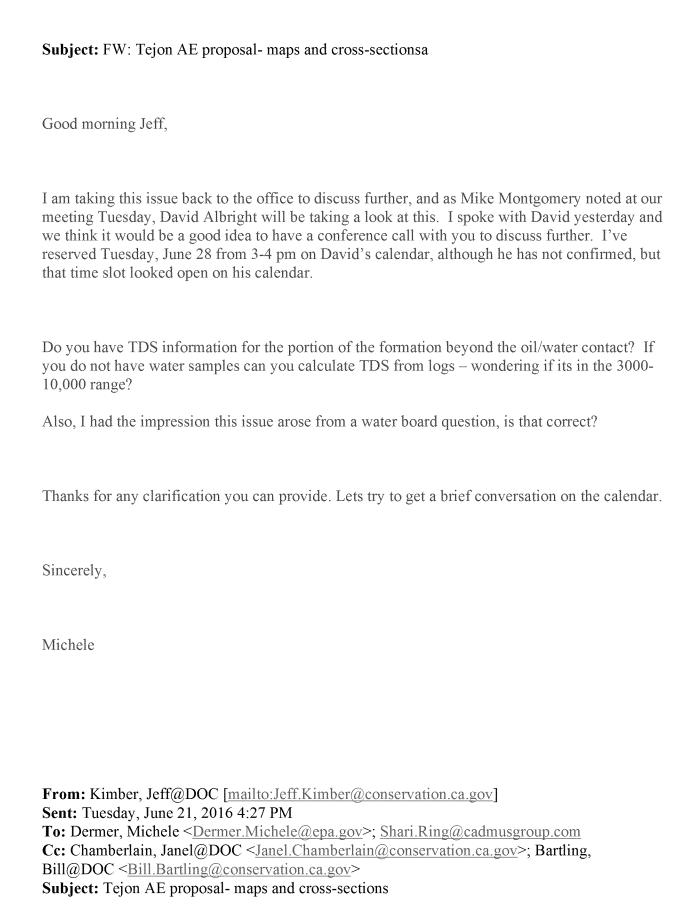
From: Dermer, Michele [mailto:Dermer.Michele@epa.gov]

Sent: Friday, June 24, 2016 9:01 AM

To: Kimber, Jeff@DOC <Jeff.Kimber@conservation.ca.gov>

Cc: Chamberlain, Janel@DOC < Janel. Chamberlain@conservation.ca.gov >; Bartling,

Bill@DOC <Bill.Bartling@conservation.ca.gov>; Albright, David <Albright.David@epa.gov>



Michelle and Shari,

Per our discussion about the Tejon aquifer exemption proposal, I have attached the map and associated cross-sections. As we discussed, the issue at hand is the criteria by which to exempt the portion of the aquifer beyond the oil water contact that is not hydrocarbon bearing (if not 146.4 b1, then b2). For optimal recovery of the hydrocarbons, it is crucial for that part of the aquifer to be exempt; to allow for water-flooding on the flanks of the oil-water contact.

Respectfully,

Jeff D. Kimber

Engineering Geologist

Department of Conservation

Division of Oil, Gas, and Geothermal Resources -Inland District

4800 Stockdale Hwy

Bakersfield, CA 93309

(661) 334-3652 (office)

(661) 201-8701 (Cell)